

WHAT IS CLAIMED IS:

- Sub 1
1. An image detector, comprising:  
a conductive object detection pattern;  
a light source for illuminating an object on the conductive object detection pattern;  
a sensor for sensing an image of the object;  
a power source selectively supplying power to the light source; and  
a controller detecting a current flowing through the conductive object detection pattern, and in response thereto supplying a control signal to the power source to selectively supply power to the light source.
  2. The image detector of claim 1 wherein the conductive object detection pattern comprises spaced apart first and second electrodes.
  3. The image detector of claim 2 wherein the controller transmits a first electrical signal to the first electrode and receives a second electrical signal from the second electrode and detects a conductivity between the first and second electrodes.
  4. The image detector of claim 1 wherein the conductive object detection pattern is made of a material selected from a group consisting of indium tin oxide, tin oxide and TiOx.

1 5. The image detector of claim 1 wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes, each of the first and second electrodes  
3 having a finger-shaped pattern, fingers of the first and second electrodes being alternately  
4 disposed.

1 6. The image detector of claim 1 wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes, the first and second electrodes being in  
3 parallel and having a P-shaped pattern.

1 7. The image detector of claim 1 wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes, the first electrode having a P-shaped  
3 pattern and the second electrode being disposed adjacent the first electrode.

1 8. The image detector of claim 1 wherein the conductive object detection comprises a  
2 triangle-shaped pattern, a part of said triangle-shaped pattern being cut so as to form first and  
3 second electrodes.

1 9. The image detector of claim 1 wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes, the first and second electrodes being  
3 disposed in parallel so as to form a rail-shaped pattern.

1 10. The image detector of claim 1 wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes, the first electrode having a U-shaped  
3 pattern and the second electrode having an I-shaped pattern.

1 11. The image detector of claim 1 wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes, the first and second each having a coil-  
3 shape pattern.

1 12. The image detector of claim 1 wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes, the first electrode having spiral-shaped  
3 pattern and the second electrode being disposed adjacent to the first electrode.

1 13. The image detector of claim 1 wherein the controller supplies the control signal to the  
2 power source to supply power to the light source in response to a living object residing on the  
3 conductive object detection pattern.

1 14. The image detector of claim 1, wherein the controller receives an electrical signal  
2 from the power source for providing the current flowing through the conductive object  
3 detection pattern.

1 15. The image detector of claim 1, wherein the sensor is a thin film transistor optical  
2 sensor.

1 16. The image detector of claim 15, wherein the conductive object detection pattern  
2 comprises spaced apart first and second electrodes.

1 17. The image detector of claim 16, wherein the controller transmits a first electrical  
2 signal to the first electrode and receives a second electrical signal from the second electrode  
3 and detects a conductivity between the first and second electrodes.

1 18. A thin film transistor type optical sensor, comprising:  
2 a light source for radiating light in accordance with a predetermined signal;  
3 a window for transmitting the light radiated by the light source;  
4 a thin film phototransistor for generating an optical current in accordance with an  
5 intensity of received light;  
6 a storage capacitor for storing charge information produced by the optical current  
7 generated by the thin film phototransistor;  
8 a switching thin film transistor for outputting the information stored in the storage  
9 capacitor in accordance with an external control signal;  
10 an insulating layer for covering the window, the thin film phototransistor, the storage  
11 capacitor, and the switching thin film transistor;  
12 a protecting layer formed on the insulating layer; and  
13 a living object detection pattern formed on the protecting layer for supplying an  
14 electrical power supply signal to the light source when a living object contacts the living  
15 object detection pattern.

1 19. The thin film transistor type optical sensor of claim 18 wherein the conductive object  
2 detection pattern is made of a material selected from the group consisting of indium tin oxide,  
3 tin oxide and TiOx.

1      20.      The thin film transistor type optical sensor of claim 18 wherein the conductive object  
2      detection pattern comprises first and second electrodes spaced apart from each other at a  
3      predetermined distance.

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